AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application. Claim 9 and 13 have been amended herein.

LISTING OF CLAIMS

1. (Original) A computer-implemented method operable on a process, the method comprising:

analyzing the process against a formula using a predetermined modal logic based on ambient calculus to determine whether the process satisfies the formula; and, outputting whether the process satisfies the formula.

- 2. (Original) The method of claim 1, wherein analyzing the process comprises analyzing the process in a recursive manner.
- 3. (Original) The method of claim 1, wherein analyzing the process comprises normalizing the process to determine whether the process comprises only a single element.
- 4. (Original) The method of claim 1, wherein analyzing the process comprises partitioning the process to determine whether each component of the process satisfies the formula.
- 5. (Original) The method of claim 1, wherein analyzing the process comprises determining a plurality of names of the process, and verifying that a name exists for the formula that is unequal to any of the plurality of names.
- (Original) The method of claim 1, wherein analyzing the process comprises analyzing 6. each sublocation of the process against the formula.
- (Original) The method of claim 1, wherein analyzing the process comprises analyzing a 7. spatial reach of the process against the formula.





8. (Original) A computer implemented method comprising:

recursively analyzing a process against a formula using a predetermined modal logic based on ambient calculus comprising:

normalizing the process to determine whether the process comprises only a single element;

partitioning the process to determine whether each component of the process satisfies the formula;

determining a plurality of names of the process, and verifying that a name exists for the formula that is unequal to any of the plurality of names;

analyzing each sublocation of the process against the formula; analyzing a spatial reach of the process against the formula; and, outputting whether the process satisfies the formula.

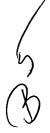
9. (Currently amended) A machine-readable medium having instructions stored thereon for execution by a process to perform a method comprising:

inputting the a process;

recursively analyzing the process against a formula using a predetermined modal logic based on ambient calculus to determine whether the process satisfies the formula; and, outputting whether the process satisfies the formula.

- 10. (Original) The medium of claim 9, wherein recursively analyzing the process comprises normalizing the process to determine whether the process comprises only a single element.
- 11. (Original) The medium of claim 9, wherein recursively analyzing the process comprises: partitioning the process to determine whether each component of the process satisfies the formula; and,

determining a plurality of names of the process, and verifying that a name exists for the formula that is unequal to any of the plurality of names.



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12. (Original) The medium of claim 9, wherein recursively analyzing the process comprises: analyzing each sublocation of the process against the formula; and, analyzing a spatial reach of the process against the formula.

13. (Currently amended) A machine-readable medium having instructions stored thereon for execution by a process to perform a method comprising:

recursively analyzing the a process against a formula using a predetermined modal logic based on ambient calculus comprising:

normalizing the process to determine whether the process comprises only a single element;

partitioning the process to determine whether each component of the process satisfies the formula;

determining a plurality of names of the process, and verifying that a name exists for the formula that is unequal to any of the plurality of names;

analyzing each sublocation of the process against the formula; analyzing a spatial reach of the process against the formula; and, outputting whether the process satisfies the formula.

14. (Original) A computerized system comprising:

a processor;

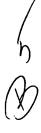
a computer-readable medium;

first data stored on the medium and representing a process;

second data stored on the medium and representing a formula using a predetermined modal logic based on ambient calculus; and,

an analysis program executed by the processor from the medium to analyze the process against the formula in a recursive manner.

15. (Original) The system of claim 14, wherein the analysis program is to normalize the process to determine whether the process comprises only a single element.



- 16. (Original) The system of claim 14, wherein the analysis program is to partition the process to determine whether each component of the process satisfies the formula.
- 17. (Original) The system of claim 14, wherein the analysis program is to determine a plurality of names of the process, and verify that a name exists for the formula that is unequal to any of the plurality of names.
- 18. (Original) The system of claim 14, wherein the analysis program is to analyze each sublocation of the process against the formula.
- 19. (Original) The system of claim 14, wherein the analysis program is to analyze a spatial reach of the process against the formula.

